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1 [Lost in translation: formalizing proposed extensions to c#](#)
[Gavin M. Bierman, Erik Meijer, Mads Torgersen](#)

 October 2007 **OOPSLA '07**: Proceedings of the 22nd annual ACM SIGPLAN Object-oriented programming systems and applications

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (479.26 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)
Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 93, Citations: 1

Current real-world software applications typically involve heavy use of XML data and their query languages. Unfortunately object-oriented language database query languages are based on different semantic foundations optimization ...

Keywords: C# , LINQ

Also published in:

 October 2007 **SIGPLAN Notices** Volume 42 Issue 10

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2 [Multi-column substring matching for database schema translation](#)
[Robert H. Warren, Frank Wm. Tompa](#)

 September 2006 **VLDB '06**: Proceedings of the 32nd international conference on data bases

Publisher: VLDB Endowment

 Full text available: [Pdf](#) (604.58 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 35, Citations: 1

We describe a method for discovering complex schema translations involving multiple database columns. The method does not require a training set linked across databases and it is capable of dealing with both fixed-length and variable-length ...

3 [Building a virtual factory](#)
[Jochen Manfred Quick, Chao Zhu, Haibin Wang, Meehae Song, Wolfgang M. Ruck](#)
 June 2004 **GRAPHITE '04**: Proceedings of the 2nd international conference on graphics and interactive techniques in Australasia and South East Asia

Publisher: ACM

 Full text available: [Pdf](#) (332.18 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation

In this paper, we describe a visualisation system which helps simulation transform discrete simulation models and results into animated scenes in environment. The system aims to significantly reduce production costs at sources ...

Keywords: animation, simulation, virtual factory, visualisation

4 [A performance evaluation of storing XML data in relational database systems](#)



Latifur Khan, Yan Rao

November 2001 **WIDM '01**: Proceedings of the 3rd international workshop on information and data management

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (104.45 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 96, Citation

XML is an emerging standard for the representation and exchange of Information. Along with document type definition (DTD), XML permits the execution of queries, using XPath to identify data in XML documents. In this paper we

Keywords: DTD, SQL, XML, XPath, relational DBMS

5 [Automating the loading of business process data warehouses](#)



Malu Castellanos, Alkis Simitsis, Kevin Wilkinson, Umeshwar Dayal

March 2009 **EDBT '09**: Proceedings of the 12th International Conference on Database Technology: Advances in Database Technology

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (629.14 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 172, Citation

Business processes drive the operations of an enterprise. In the past, they primarily on business process design, modeling, and automation. Recently, they have realized that they can benefit tremendously from analyzing the behavior

6 [The architecture of a one-stop web-window shop](#)



Mona Marathe, Hemalatha Diwakar

December 2000 **SI Gecom Exchanges**, Volume 2 Issue 1

Publisher: ACM

Full text available: [Pdf](#) (83.70 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation

With the advent of e-commerce, web shops - where a potential buyer can purchase transaction on the web - are becoming commonplace. In every business buyers we face a typical need for matching or coordinating a host of activities before ...

Keywords: B2C, e-commerce, mediator, prioritized queries, query-by-relational databases, web-shopping

7 [Towards automatic association of relevant unstructured content with query results](#)



Prasan Roy, Mukesh Mohania, Bhuvan Bamba, Shree Raman

October 2005 **CIKM '05**: Proceedings of the 14th ACM international conference on Information and knowledge management

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (285.87 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 81, Citation

Faced with growing knowledge management needs, enterprises are increasing the importance of seamlessly integrating critical business information from both structured and unstructured data sources. In existing information systems,

Keywords: SQL, context, information integration, keyword search

8 [XRel: a path-based approach to storage and retrieval of XML documents using relational databases](#)



August 2001 **Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (264.27 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 137, Citation

This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables accordingly.

Keywords: XML query, XPath, text markup, text tagging

9 [Translating XSLT programs to Efficient SQL queries](#)



Sushant Jain, Ratul Mahajan, Dan Suciu

May 2002 **WWW '02**: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM




Full text available: Pdf (171.64 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 34, Citation

We present an algorithm for translating XSLT programs into SQL. Our algorithm is used in a virtual XML publishing, in which a single XML view is defined from a relational database and subsequently queried with XSLT programs. Each XSLT program is translated into a SQL query.

Keywords: SQL, XML, XSLT, query optimization, translation, virtual view


10 [Model-driven development of Web applications: the AutoWeb system](#)

-  [Piero Fraternali, Paolo Paolini](#)
 October 2000 **Transactions on Information Systems (TOIS)** , Volume 18 I
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (6.94 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)


Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 396, Citations

This paper describes a methodology for the development of WWW application tool environment specifically tailored for the methodology. The methodology development environment are based upon models and techniques already available in hypermedia, ...




Keywords: HTML, WWW, application, development, intranet, modeling

- 11** [Query processing in the aqualogic data services platform](#)
[Vinayak Borkar, Michael Carey, Dmitry Lychagin, Till Westmann, Daniel Enokose](#)
 September 2006 **VLDB '06: Proceedings of the 32nd international conference on data bases**
Publisher: VLDB Endowment
 Full text available:  [Pdf](#) (571.23 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 47, Citations

BEA recently introduced a new middleware product called the Aqua-Log Platform (ALDSP). The purpose of ALDSP is to make it easy to design, develop and maintain a data services layer in the world of service-oriented architecture.

- 12** [DTD-directed publishing with attribute translation grammars](#)
[Michael Benedikt, Chee Yong Chan, Wenfei Fan, Rajeev Rastogi, Shihui Zhong](#)
 August 2002 **VLDB '02: Proceedings of the 28th international conference on Data Bases**
Publisher: VLDB Endowment
 Full text available:  [Pdf](#) (213.54 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 14, Citations

We present a framework for publishing relational data in XML with respect to a DTD. In data exchange on the Web, XML views of relational data are typically required to conform to a predefined DTD. The presence of recursion in a DTD as well as in the data may lead to non-terminating queries. In this paper, we study the problem of publishing relational data in XML with respect to a DTD in a way that ensures determinism ...


- 13** [SilkRoute: A framework for publishing relational data in XML](#)
 [Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Kwan](#)
 December 2002 **Transactions on Database Systems (TODS)** , Volume 27 I
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (687.91 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 97, Citations

XML is the "lingua franca" for data exchange between enterprises. In this work, we describe SilkRoute, a framework for publishing relational data in XML.

SilkRoute, relational data is published in three steps: the relational table


Keywords: XML, XML storage systems, XQuery

14 [Safe query objects: statically typed objects as remotely executable q](#)

 William R. Cook, Siddhartha Rai

May 2005 **ICSE '05: Proceedings of the 27th international conference on S**
engineering

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (161.08 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)
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Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 54, Citation

Developers of data-intensive applications are increasingly using persiste
such as EJB, Hibernate and JDO to access relational data. These framew
both transparent persistence for individual objects and explicit queries t

Keywords: JDO, persistence, type safety

15 [Storing and querying XML data using denormalized relational databa](#)

[Andrey Balmin, Yannis Papakonstantinou](#)

March 2005 **The VLDB Journal — The International Journal on Very L**
Bases, Volume 14 Issue 1


Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (397.97 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 152, Citatic

XML database systems emerge as a result of the acceptance of the XML
Recent works have followed the promising approach of building XML dat
management systems on underlying RDBMS's. Achieving query process
reduces ...

16 [Wrapper-based evolution of legacy information systems](#)

 Philippe Thiran, Jean-Luc Hainaut, Geert-Jan Houben, Djamel Benslimane

October 2006 **Transactions on Software Engineering and Methodology**
Volume 15 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (873.15 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 332, Citatic


System evolution most often implies the integration of legacy componer
databases, with newly developed ones, leading to mixed architectures t
severe heterogeneity problems. For instance, incorporating a new progr
legacy ...

Keywords: CASE tool, Schema transformation, data consistency, data
engineering, evolution, legacy database, wrapper

17 [Adaptable query optimization and evaluation in temporal middleware](#)

 [Giedrius Slivinskas, Christian S. Jensen, Richard Thomas Snodgrass](#)
June 2001 **SIGMOD '01**: Proceedings of the 2001 ACM SIGMOD international
Management of data

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (232.65 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 56, Citation

Time-referenced data are pervasive in most real-world databases. Recent temporal query languages show that such database applications may be substantially from built-in temporal support in the DBMS. To achieve this query optimization ...

Also published in:

June 2001 **SIGMOD Record** Volume 30 Issue 2

18 [Towards a digital excavation data management system: the "Grand I](#)

 [Etruscan deep-water wreck](#)

[Pierre Drape, Luc Long](#)

November 2001 **VAST '01**: Proceedings of the 2001 conference on Virtual reality
archeology, and cultural heritage

Publisher: ACM


Full text available:  Pdf (6.97 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 30, Citation

The interdisciplinary work we present here is aimed principally at administrative types of information collected during an archaeological excavation using a management system. The approach is global, from the consultation of three-dimensional ...

Keywords: VRML, archaeological database, geographic information system, java, three-dimensional model, underwater archaeology, underwater photography

19 [Integrating bioinformatic data sources over the SFSU ER design tool](#)

 [Yan Liu, Sorna Vincent, Marguerite C. Murphy](#)

July 2006 **ICWE '06**: Workshop proceedings of the sixth international conference on
engineering

Publisher: ACM

Full text available:  Pdf (349.08 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation

The SFSU ER Design Tools were developed to support database design and integration over multiple implementation data models. These tools allow users to create and view Entity Relationship (ER) schemas and to translate ER schemas of ...

Keywords: Web services data integration, distributed query processing, schema integration

20 [Ontology-based integration for relational databases](#)



Dejing Dou, Paea LePendu

April 2006 **SAC '06**: Proceedings of the 2006 ACM symposium on Applied co

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (199.50 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 179, Citatic





In this paper, we show that representation and reasoning techniques us knowledge engineering and the emerging Semantic Web can play an im heterogeneous database integration. Our OntoGrate architecture combi based ...

Keywords: data integration, first order logic, inference, ontology, sem

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